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July 6, 2000

Mr. Chuck Schwer  
Vermont ANR/DEC  
Waste Management Division  
103 South Main St. /West Building  
Waterbury, VT 05671-0404

Re: Stockpiled Petroleum Contaminated Soils at Monument Farms, Weybridge, VT  
(VTDEC Site #99-2642)

Dear Mr. Schwer:

Enclosed please find a copy of the annual report of the screening of the petroleum contaminated soil stockpile at Monument Farms. Mr. Bob James of Monument Farms has reviewed the report and requested that it be forwarded for your review.

No volatile organic compounds (VOCs) were detected in the soil stockpile by field screening methods. Griffin is recommending that the soil stockpile be thin-spread on-site following approval by the Vermont Department of Environmental Conservation (VTDEC). In addition, Griffin recommends that Monument Farms be granted Site Management Activity Completed (SMAC) status and removed from the VTDEC active hazardous waste site list.

Please contact me if you have any questions or comments.

Sincerely,

Christine Ward  
Hydrogeologist

Enclosure

c.: Bob James, Monument Farms (w/o enclosure)  
GI#59941541

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**ANNUAL SOIL STOCKPILE  
SCREENING REPORT**

**MONUMENT FARMS  
2107 JAMES ROAD  
WEYBRIDGE, VERMONT**

VTDEC Site #99-2642  
GI#59941541

June 27, 2000

*Prepared for*

Monument Farms, Inc.  
2107 James Road  
Weybridge, Vermont 05753

*Prepared by*



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## 1. INTRODUCTION

On June 11, 1999, petroleum contaminated soils were detected during the permanent closure of a 2,000-gallon diesel underground storage tank (UST) at Monument Farms in Weybridge, Vermont (see Site Location Map, Appendix A). Approximately 3.5 cubic yards of petroleum contaminated soils generated during the closure of this UST were polyencapsulated and stockpiled on-site. At the time of closure, the concentration of volatile organic compounds (VOCs) in the soils, as measured with an HNu<sup>TM</sup> photo-ionization detector (PID) equipped with a 10.2 eV bulb, ranged from 0.2 to 82 parts per million (ppm) [2]. Two composite soil samples were collected on June 11, 1999, from the base of the excavation for laboratory analysis to confirm that all the contaminated soil had been removed. No petroleum compounds targeted by EPA Method 8021B and EPA Method 8015-DRO were reported above the sample specific detection limits in the two soil samples [3]. No unidentified peaks (UIPs) of petroleum compounds were reported by EPA Method 8021B for the two soil samples.

A 3,000-gallon #2 fuel oil UST at Monument Farms was removed and permanently closed on May 18, 1999 [4]. No VOCs were detected at levels exceeding 0.1 ppm with the PID. No further action was required for this fuel oil UST.

The Vermont Department of Environmental Conservation (VTDEC) requested that Monument Farms develop a plan to treat/ monitor the stockpiled soils in a letter from Mr. Chuck Schwer of the VTDEC to Mr. Bob James of Monument Farms, Inc. dated August 4, 1999. This work was conducted in accordance with Griffin's *Work Plan and Cost Estimate for Annual Screening of Stockpiled Petroleum-Contaminated Soils*, dated August 1999. Mr. Bob James of Monument Farms verbally approved the work plan on October 15, 1999. The VTDEC approved the work plan in a letter dated October 22, 1999, from Mr. Schwer to Mr. James.

## 2. SOIL STOCKPILE SCREENING

Griffin conducted the annual site visit on June 8, 2000. Three discrete representative soil samples were collected with a hand auger from the stockpile. Each sample was screened for VOCs using a HNu<sup>TM</sup> PID equipped with a 10.2 eV bulb in accordance with Griffin's Jar/Polyethylene Bag Headspace Analysis Protocol, which conforms to state and industry standards. No VOCs were detected with the PID from the soil samples. No visual or olfactory indications of petroleum contamination were noted in the soil stockpile.

Sample	Depth (ft)	PID (ppm)
1	2	0
2	2	0
3	2	0



### 3. RECEPTOR SURVEY

The soil stockpile is located on Bittersweet Falls road and is depicted on the Site Location Map (Appendix A), approximately 0.25-mile from the Milk Plant and the location of the former diesel UST. The land is owned by Monument Farms and is a contiguous parcel of property.

The area is served by private water supplies. The Monument Farms supply well is located under the Milk Plant building. According to Mr. Bob James of Monument Farms, the well is approximately 800 feet deep and services five houses in the area [4]. Approximately two to four additional supply wells are estimated to be within a 0.5-mile radius of the Monument Farms Milk Plant according to Mr. James [4]. The Monument Farms supply well is located approximately 0.25-mile northeast of the soil stockpile. Based on the non-detection of VOCs by laboratory analysis of soil samples collected from the limits of the former diesel UST excavation on June 11, 1999, and by field screening results from the polyencapsulated soil stockpile on June 8, 2000, the risk of impact to the Monument Farms supply well and other potential supply wells in the area is considered minimal.

Exposed bedrock was noted in the area of the soil stockpile location on June 8, 2000. No streams, ponds, or houses were noted within 100 feet of the soil stockpile location. The nearest stream is Beaver Brook located approximately 1,000 feet southwest of the soil stockpile. A wet area is noted on the USGS map [1] approximately 750 feet east of the soil stockpile location.

Based on visual observations of the site and on the field screening results of the soil stockpile, there are no known receptors at risk of impact from the 3.5 cubic yard soil stockpile.

### 4. CONCLUSIONS

Based on the results of this June 2000 annual soil screening event and on the June 1999 UST closure at the Monument Farms site in Weybridge, Vermont, Griffin presents the following conclusions:

1. A 2,000-gallon diesel UST at the Monument Farms Milk Plant was removed and permanently closed on June 11, 1999.
2. Approximately 3.5 cubic yards of petroleum contaminated soils generated during the UST closure were excavated and stockpiled on-site enclosed in polyethylene sheeting. The VOC concentrations of the stockpiled soils ranged from 0.2 to 82 ppm on June 11, 1999.
3. To confirm that the extent of petroleum impacted soils had been excavated, two composite soil samples were collected on June 11, 1999, from the base of the excavation and submitted for laboratory analysis. No petroleum compounds targeted by EPA Method 8021B and EPA Method 8015-DRO were reported above the sample specific detection limits in the two soil samples.



4. Three discreet soil samples were collected from the 3.5 cubic yard soil stockpile on June 8, 2000. No VOCs were measured from the soil samples with a PID. No visual or olfactory indications of petroleum contamination were noted in the soil stockpile.
5. The Monument Farms supply well is located approximately 0.25-mile northeast of the soil stockpile location and approximately 100-feet northwest of the former diesel UST. Based on conclusions #3 and #4 above, the risk of impact to the supply well is considered minimal.
6. There are no known sensitive receptors currently affected by the soil stockpile and none are deemed at significant potential risk, based on currently available data.

## 5. RECOMMENDATIONS

With the soil stockpile remediated, Griffin recommends that the soil stockpile be thin-spread on-site (with VTDEC approval) and that the Monument Farms site be granted Site Management Activity Completed (SMAC) status and removed from the VTDEC Active Hazardous Waste Sites List. This recommendation is offered based upon achievement of the following closure criteria, as per the VTDEC Site Management Activity Completed (SMAC) Checklist (dated December 1, 1997):

- 1) The source(s), nature, and extent of the petroleum contamination at the site has been adequately defined.

See Conclusions #1, #2, and #3.

- 2) Source(s) has been removed, remediated, or adequately contained.

See Conclusions #1, #2, #3, and #4.

- 3) Levels of contaminants in soil and groundwater shall be stable, falling, or non-detectable.

See Conclusion #3, and #4.

- 4) Groundwater enforcement standards are met at the following compliance points:

*Any point of present use of groundwater as a source of potable water:* See Conclusions #5 and #6. Groundwater was not encountered during UST excavation activities.

*Any point at or within the boundary of any Class I groundwater area:* The Monument Farms site is not within a Class I groundwater area.

*Any point at the boundary of the property on which the contaminant source is located:* See Conclusion #5 and #6. Groundwater was not encountered during UST excavation activities.



- 5) Soil guideline levels are met. If not, engineering or institutional controls are in place.

See Conclusion #3 and #4.

- 6) No unacceptable threat to human health or the environment exists on site.

See Conclusions #3, #4, #5, and #6.

- 7) Site meets RCRA requirements.

Available records indicate that the Monument Farms is not in violation of the Resource Conservation and Recovery Act (RCRA) as defined in 40 CFR 264. No specific inspection or site evaluation was conducted by Griffin concerning compliance with RCRA.

- 8) Site meets CERCLA requirements.

Available records indicate that the Monument Farms is not in violation of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as defined in 40 CFR 300. No specific inspection or site evaluation was conducted by Griffin concerning compliance with CERCLA.

## 6. REFERENCES

1. USGS 7.5 Minute Topographic Map, Middlebury, VT, dated 1963 and photinspected 1972.
2. Griffin International, Inc., June 17, 1999, *UST Closure Inspection, Monument Farm Milk Plant, Weybridge, Vermont*, letter report to Ms. Sue Thayer, State of Vermont, Department of Environmental Conservation.
3. Griffin International, Inc., June 24, 1999, *UST Closure Inspection, Monument Farm Milk Plant, Weybridge, Vermont*, laboratory results letter report to Ms. Sue Thayer, State of Vermont, Department of Environmental Conservation.
4. Griffin International, Inc., May 24, 1999, *Monument Farms Milk Plant UST Closure Inspection*, letter report to Ms. Sue Thayer, Vermont ANR/DEC Waste Management Division.
5. State of Vermont, Agency of Natural Resources, Waste Management Division, August 1996, *Agency Guidelines for Petroleum Contaminated Soil and Debris*.
6. State of Vermont, Agency of Natural Resources, Waste Management Division, December 1, 1997, *Site Management Activity Completed Procedure*.



# Appendix A

## Site Location Map



